

Reviewer       
Date 11/8/15

Form/Permit # 2419  
Company Name KWB OIL PROP MGT. INC.  
Well # (b)(9)  
Location     

### TECHNICAL REVIEW

Type Injection Well: (EOR/SWD/HC Storage) (New/Conversion) (Active/Inactive)

Injection: (Continuous/Cyclic)

Approximate # days operating/year       
Rate (B/D): Average      Maximum 94  
Wellhead pressure (psi): Average      Maximum 0  
Fluid: TDS      Sp. Gr. 1.1 (EST) Analyses included: (yes/no)  
Source (formation name)     

Geologic Data (all references to depths are below land surface)

Base of Historical Usable Water: 100 ft (BASED ON WATER WELL DATA @ 2 MILES TO THE NE)  
Base of USDW and how determined: 4130 ft (BASED ON WELL LOG (#1-A, SW/4))  
Injection Interval: Top 1695 ft; Bottom 1702 ft; Effective Thickness       
Formation name MISSISSIPPI Lithology LIME  
Porosity (%)      Initial Reservoir Pressure      Date       
Permeability (md)       
Confining Zones: Thickness between injection zone and USDW       
Lithology       
Cumulative shale     : thickest shale zone      (interval)

Well Data: (all references to depths are below land surface)

Surface Elevation: 856 ft (KB/GL) Total (Depth/Plugged Back Depth) 2016 ft.  
Date Drilled or to be drilled: 3/27/33 Date converted: 7/20/67  
Type logs available on (this well/offset well): (By reference/included)     

Test data: (By reference/included)     

Construction:	Size (in)	Depth Interval	Sacks of Cement	Hole Size	Cement Interval	How Determined
Surface Csg.	<u>10.00"</u>	<u>0-20'</u>	<u>0</u>	<u>    </u>	<u>    </u>	<u>    </u>
Intermediate Csg.	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>
Long String Csg.	<u>6.62"</u>	<u>0-1580'</u>	<u>0</u>	<u>    </u>	<u>    </u>	<u>    </u>
Liner	<u>5.50"</u>	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>
Tubing	<u>2.60"</u>	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>

Packer type and depth      1530 ft

AOR (1/4 mile radius)

Map submitted: (yes/no)      Tabulation of Wells Submitted: (yes/no)       
Faults Located: (yes/no); (none Present/Distance from injection well     )  
Number of wells in AOR:       
Total      (Abandon     ; Production     ; Injection     )  
Number of wells in zone of Endangering Influence: Total       
Number of wells Requiring Corrective Action: Total      (list below)

Well	Type Well	Problem	Corrective Action Required
<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>
<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>
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Maximum Injection Pressure Calculation  $P_m = (\text{Frac Gradient} - (0.433 \times \text{Sp.Gr.})) \text{ depth}$

$$P_m = (0.75 - (0.433 \times 1.1)) \times 1695 = 464 \text{ (psi)}$$

Technical Review (Passed/Failed)

REPORTS A 5.5" LINER BUT DOESN'T STATE WHETHER IT WAS EVER CEMENTED